

Radio

AMATEUR

Call Book Magazine

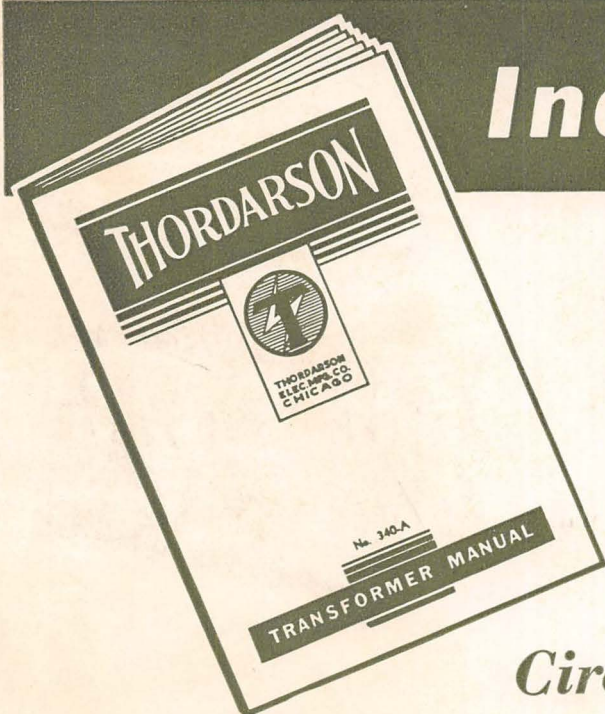
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SPRING 1935



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For Amateurs, —Servicemen, —Experimenters

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Circuits, Data, Tables, Charts
88 Pages of Essential Information!

COVERS TRANSMITTERS From 20 Watts to 1 K.W.
SOUND SYSTEMS From Pre-Amplifiers to 50 Watt P.A.
RADIO SERVICE—A New Path to Profits

Contents Include:

A Condenser Capacity and Leakage Tester for Home Construction

50 Watt Transmitter using Push-Pull 210's

Dual Channel High Fidelity Amplifier—20 to 16,000 Cycles

Transformer Impedance Ratio Charts

20 Watt Portable 6A6, for 100% Modulated Phone Transmission on 10, 20, 40, or 80 Meters

Watt Input and Load Impedance Chart

Neon Output Indicator

Measuring Inductance of Iron Cored Chokes

Relation of Transformer Core Dimensions to Watt Handling Capacity

Chart for Tuning Filter Chokes for Hum Suppression

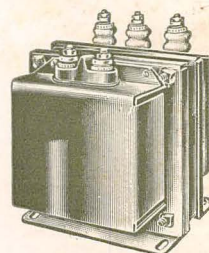
18 Watt Speech Amplifier Class A Prime

Transmitting Tube Chart

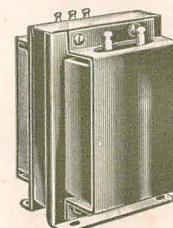
The ALL-STAR JUNIOR and SENIOR Information

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Favorite "Ham" Transformers



T-5489—For 800, 203A, 845, 211, 261A, 830B, RK18 Tubes—1000 V. D.C. at 400 MA. Size 7 x 8 x 7".



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CITY..... STATE.....

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transmitting types

Licenses were unknown when we started in the "Ham" game and we know by this time that only the best is cheap. Here are some of the quality products we handle at prices that are right.

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Hammarlund Comet "Pro" and New Super "Pro."
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SUPREME TRANSMITTING CONDENSERS

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Guaranteed to Operate at Specified Voltages.
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8 mf electrolytic condenser, reg. round metal container 500 v..... .39

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A truly fine actually custom built nine tube all wave superheterodyne with crystal filter, beat oscillator, band selection, band spread tuning, preselection and monitor. Very solidly constructed. Encased in crackle finish metal cabinet . . . less tubes, \$112.50.

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Prices on other types on request.

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Highest grade amateur crystals. Warranted to be satisfactory

Type BC3 (in holder) Mounted Supplied to specified freq. within		Type BC3 (in holder) Mounted Supplied to specified freq. within		Type BC3 (in holder) Mounted Supplied to specified freq. within	
Mc Band	10 kc.	5 kc.	1 kc.	Exact	
7.0	3.5	\$3.95	\$4.90	\$5.00	\$7.50
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Add 50c if genuine G.R. plugs desired.

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Drills and bends readily. Non-magnetic. We will furnish in any size, cut to your order up to 30"x36". Price per square inch \$.004.

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RADIO AMATEUR CALL BOOK MAGAZINE

(Registered at U. S. Patent Office)

Vol. 16

March 1935

No. 1

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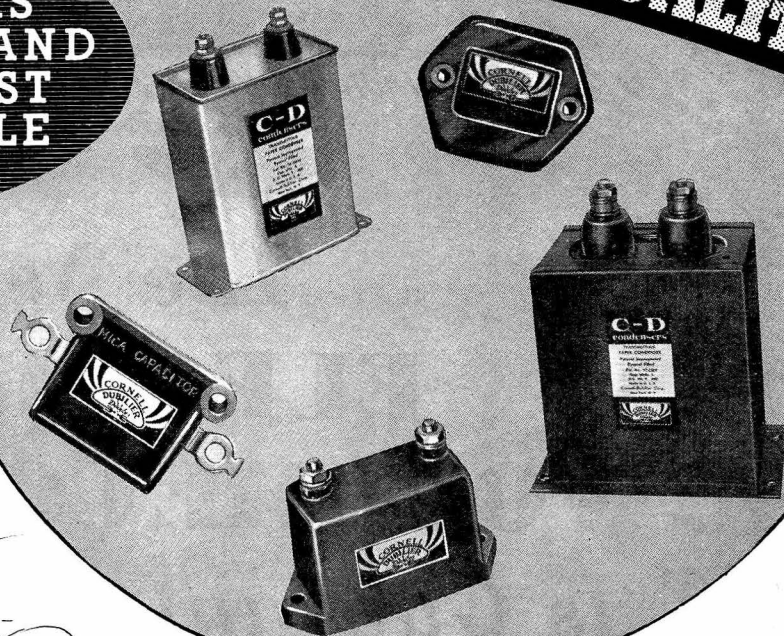
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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

BETTER CONDENSERS are BEING BUILT CORNELL-DUBILIER Builds THEM... The CONDENSER with HIDDEN QUALITY!

FOR HAMS
WHO DEMAND
THE FINEST
OBTAINABLE



BOULDER DAM

Majestic symbol of strength. The mightiest structure made by man. You'll find the same degree of engineering and strength in every C-D condenser. Look to the label that proclaims the Quality Inside!

In pace with the great achievements of science . . . C-D condensers! Condensers that give the Amateur more! Condensers that are sturdy and self-supporting! Condensers of remarkable compactness! Condensers so long-lived it seems they just can't break down! Condensers that give new improved construction at low, within-your-reach prices! Most important of all, condensers with that famous C-D Hidden Quality. You can identify the Hidden Quality condenser by the C-D label—the label that says, "Hams, your condenser worries are over! As long as the condensers you use bear the C-D label, the Hidden Quality is within."

FIVE CONDENSERS WITH THE FAMOUS HIDDEN QUALITY FEATURES:

PAPER

Paper transmitting condensers ranging from 600v to 25,000v. Oil filled and oil impregnated. The first hermetically sealed, steel container oil filled transmitting condenser ever manufactured. Fully 50% smaller and 70% lighter in weight than standard competitive condensers, for a unit of equal capacity and working voltage, now on the market.

TYPES 4 and 9 MICA

Low R.F. losses. Constant capacity under the most severe climatic conditions. Largest choice of capacity and voltage range, of this type condenser available. Can be furnished in low loss Bakelite for use on ultra short wave or unusually high R.F. voltages. Losses are reduced, in this type of construction 50% more than is ordinarily possible in the standard units.

TYPE 6 MICA

The type 6 series of mica dielectric condensers consists of a patented construction of series-connected sections enclosed in moulded Bakelite cases which are provided with convenient mounting flanges. The Condenser section is thoroughly sealed in the case and provided with two screw and nut terminals at the top of the unit. A wide variety available.

ELECTROLYTICS

The hi-formation manufacturing process has more than doubled the already highly effective life of the electrolytic condenser. Lower power factor, longer shelf life, constant capacity under unusually high temperatures are some of the salient features of the C-D electrolytics. Hi capacity low voltage for rectifier circuits, low capacity and low voltage for filtering.

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These small mica receiving condensers have been standard with the radio and allied industries since 1910. Manufactured of the finest obtainable mica and foil, these capacitors are assembled at a pre-determined pressure assuring constant capacity under the most adverse climatic conditions. One of the most popular units with amateurs throughout the world.

Get the lowdown on Hidden Quality today! Write to W2AF5 for catalog No. 128 . . . Just off the press!

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Shhh! Shhh!
QUIET
Please!



Individually **TESTED**
 for **NOISE**

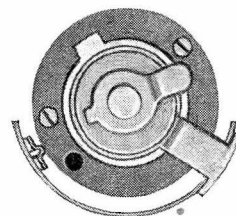
*Of Course,
 You've Heard
 OF It, But
 You've Never
 HEARD It!*

The New **ELECTRAD** **VOLUME CONTROL** *Is Guaranteed QUIET*

HERE is the great achievement of modern radio engineering—a volume control, so radically improved in design and smooth in operation, it is *guaranteed quiet*.

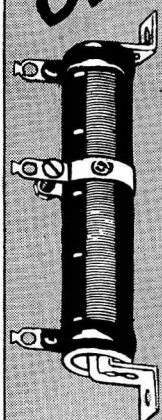
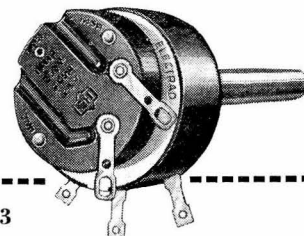
The resistance element is baked on the flat outer rim of a rigid Bakelite ring. Over this, the special-alloy floating contact gently glides in a *straight* path.

More even distribution of current and longer life are attained. Molded Bakelite case, when mounted, projects only one-half inch back-panel. New type power-switch (*approved by underwriters*) instantly attached or detached. Long, easy-to-cut, aluminum shaft. All standard values.

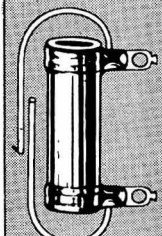


Contact glides over resistance element in straight path

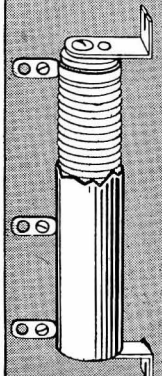
Standard Replacement Volume Control with power-switch attached



VARIOHM



10-WATT



TRUVOLT

from
RESISTOR
Headquarters

175 Varick St., New York, N.Y.

ELECTRAD
 INC.



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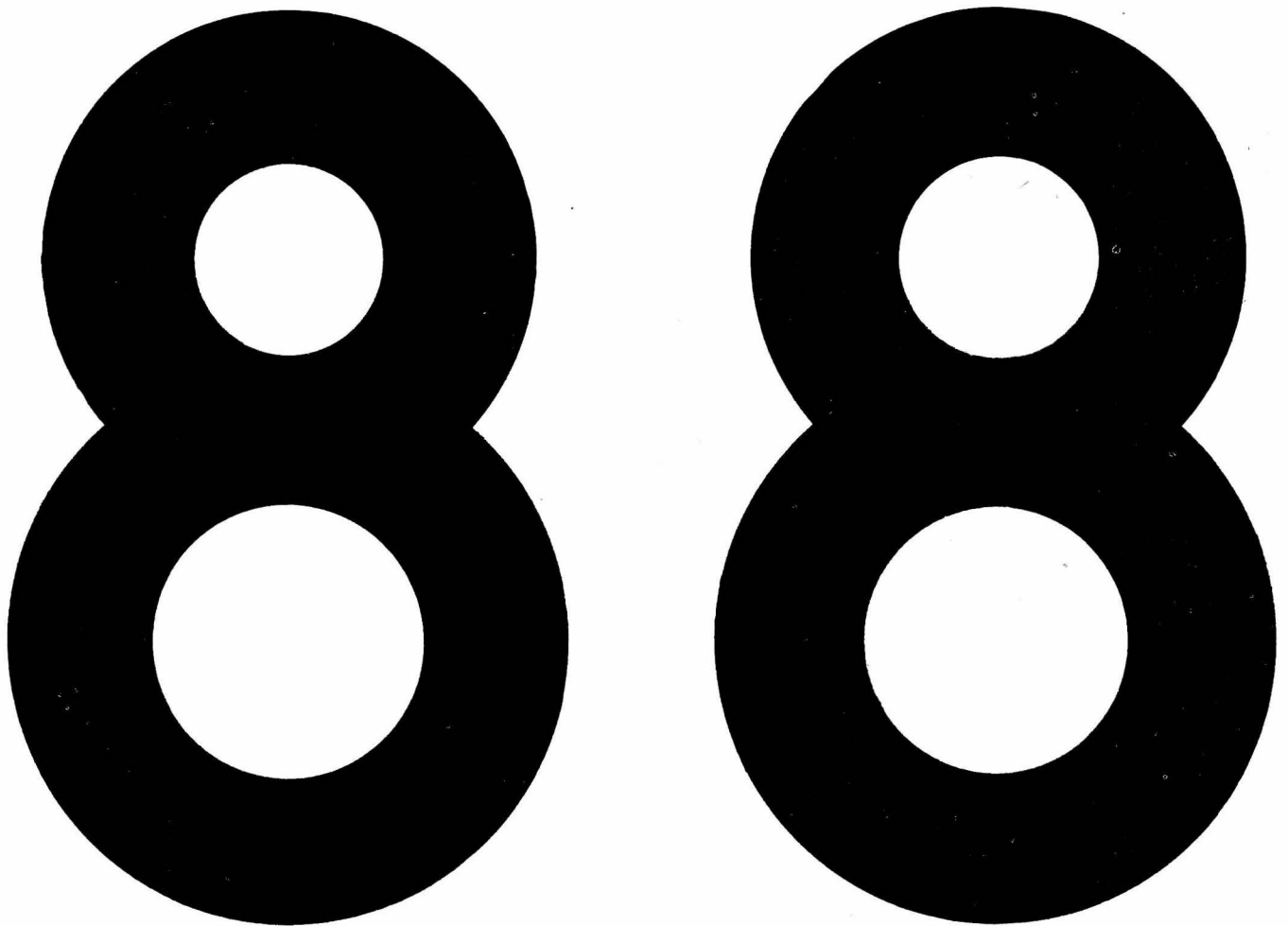
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NAME.....

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No electric toasters, no refrigerators, no bed warmers or squawk-boxes are sold by Midwest. Instead, we have concentrated our entire attention on giving the amateur the most prompt and ac-



curate service on all types of short-wave transmitting and receiving equipment.

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It is for this reason that amateurs turn year after year to Midwest as the house best suited to their needs. Catalog will be sent on request.

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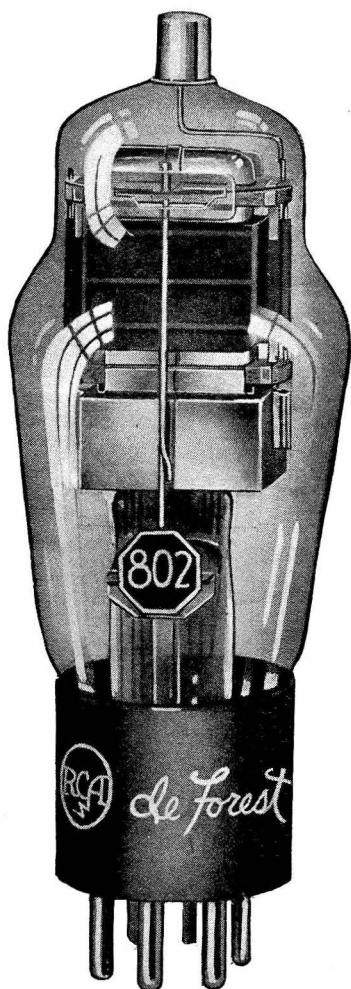
+ R A D I O M A R T +

520 SOUTH STATE STREET, CHICAGO, ILLINOIS

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

V E R S A T I L E

D E P E N D A B L E



The NEW

RCA-802

AMATEUR'S NET PRICE

\$3.90

RCA Radiotron is proud to introduce this new RCA deForest type—the 802—which fills diversified needs for a moderate-powered pentode at a price within the reach of every amateur.

The applications of the RCA-802 are numerous. Some of the important uses which immediately suggest themselves are:

- (1) Straight pentode crystal oscillator,
- (2) Electron-stream-coupled oscillator,
- (3) Frequency multiplier (doubler, etc.),
- (4) Suppressor-modulated amplifier,
- (5) Control-grid-modulated amplifier,
- (6) Class C buffer-amplifier,
- (7) Class C power amplifier.

Employing a 6.3-volt heater, the RCA-802 also offers exceedingly attractive possibilities in a compact, low-powered 'phone transmitter for portable operation from an automobile storage battery.

Please send RCA-802 bulletin to:

Name _____

Address _____

City _____

Call Letters _____

Dept. K

Send us this coupon for complete technical information. Your RCA deForest Distributor has the RCA-802 in stock



**AMATEUR
RADIO SECTION**

RCA MANUFACTURING COMPANY, INC.
CAMDEN NEW JERSEY

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

Out of the Brain of SCIENCE



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From the heart of fine laboratories where standards of precision are vital, Science and keen Craftsmanship bring you the Super SKY-RIDER—the incomparable Short Wave Receiver. It took years—three of them; it took dollars—thousands of them. Today, we bring you the scientifically, brilliantly engineered Super SKY-RIDER which masters the Short Wave bands with sure power, acute selectivity, and with a reach which is uncanny in its ease and scope.

IMMEDIATE DELIVERY

The Super SKY-RIDER is a splendid reality already in the proud possession of many enthusiastic Amateurs and "DX" Short Wave fans. It will bring you, too, an exciting adventure in radio ingenuity and engineering brilliance.

SEE THE SUPER SKY-RIDER AT YOUR NEAREST JOBBER, OR MAIL COUPON FOR FULL DETAILS

FEATURES THAT CHALLENGE:

- Four Short Wave Bands
- 5 Band Selector Switch
- Full 7 Inch Bandspread
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- Built-in Power Pack and Speaker
- An Oscillator That Doesn't Creep

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the hallicrafters

THE HALLICRAFTERS, INC.

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Send me at once, complete FREE description of the Super SKY-RIDER—the one Short Wave Receiver designed and built by Science. Also send me the name of my nearest jobber.

Name

Address

City State

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

A KEY FALT-E-R-S-

Silence... and then



No. 1 of a Series Printed in
Tribute to Amateur Radio Achievements

nine thousand miles away a radio operator swings into action. James Laughlin, ZL2HO, on rock-bound Chatham Island in the Pacific, east of New Zealand, has been "working" Clyde De Vinna, radio operator with a movie expedition frozen-in far north in the Arctic. They have been contacting each other on regular relay schedule. Tonight, De Vinna is sending his daily report. Suddenly, his keying is incoherent, faltering—and then silent. Laughlin, sensing trouble, sends his signals winging in a dramatic relay to an amateur in Honolulu who flashes the word on to Teller Island, only a few minutes from De Vinna's expedition. The Teller Island operator pushes out in his dog sled headed for De Vinna's igloo station. De Vinna is unconscious, prostrate on the floor, overcome by deadly carbon monoxide fumes creeping from a small coke stove. He is hurried to the expedition ship where he revives—and a little later, true to tradition—he is sending his nightly reports home—a man returned from the dead by the miracle of Amateur radio.

THE story of this rescue is a miracle—the story of an amazing conquest over time and space. In less than ten thrilling minutes—over a vast distance of nine thousand miles, radio signals flickered out their dramatic messages and saved a human life. Let us pay our tribute to the Amateurs who played their rescue parts nobly. But let us also, as Amateurs, remember the unsung transmitters that sent so faithfully, and the receivers that captured each message so surely. *They did not fail. They too, are heroes.*

WE, at ALLIED, wish only to have you remember that when you buy parts to rebuild your old rig, or when you build your new station—QUALITY should be a prime consideration. QUALITY equipment will meet every test in an emergency—therefore plan and build as if for emergencies. A station constructed upon this concept will reach out, will capture, will do heroic duty in fair weather or foul, on idle calls or on stirring emergencies. If we can leave this one thought with you, we feel that we have accomplished a great deal in the interest of Amateur Radio.

RESERVE YOUR COPY OF THE NEW SPRING AND SUMMER ALLIED CATALOG



Allied Radio

C O R P O R A T I O N

833 W. JACKSON BLVD., CHICAGO, ILL.

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

NEW!

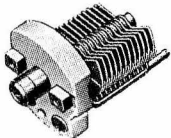


"IBT" MIDGET
TRIMMER CONDENSER

New types of compact Hammarlund Condensers now available for trimming, padding, and transformer-tuning.

Some mount inside Coil Forms or Shields.

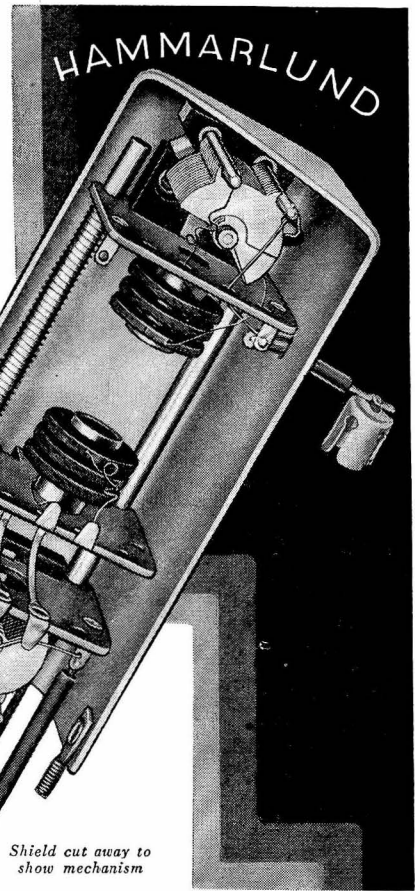
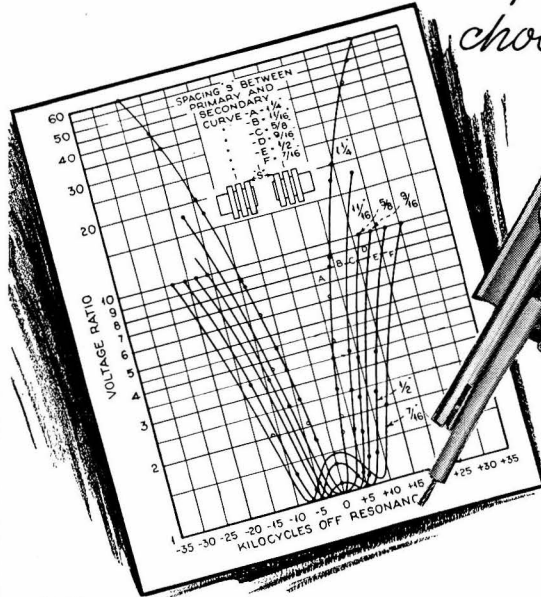
They are accurately rated, constant and reliable under the most severe conditions.



"APC" AIR
PADDING CONDENSER

Variable I.F. COUPLING

*provides SELECTIVITY
or FIDELITY, as you
choose*



Shield cut away to
show mechanism

Now, the greatest single improvement in receiver flexibility in recent years.

CONTINUOUSLY VARIABLE SELECTIVITY, from a needle-sharp peak to the flat top required for fidelity—without affecting tuning.

The transformer, basically, is the time-tested Hammarlund I.F.T. design, with new triple-type, pie-wound Litz coils and air-dielectric condensers. Plus the startling feature of *continuously variable coupling between the coils*.

Adjustment of coupling in each transformer may be fixed at any point, or continuously varied by panel-control, either individually or ganged in groups, according to selectivity desired.

The diagram shows the variable selectivity characteristics of a single transformer only.

Designed primarily for use in the new COMET Super-"PRO" Receiver, soon to be announced, these transformers may easily be adapted to other superheterodynes.

Code No. VT-465 (465 kc.) List price, \$5.50 each, less 40% to experimenters.

New LOW-LOSS COIL SETS and COIL FORMS

Get more stations, louder signals and sharper tuning with these low-priced Hammarlund Coils (*illustrated below*). Users say they out-perform any other coils at any price. "XP-53," the new Hammarlund low-loss dielectric, has no artificial coloring to cause losses. The forms are ribbed

for air-spacing, have easy-grip flanges and handy "Meter-Index" inserts for coil ranges. Set of four coils for 15-270 meters (4 prongs, 2 windings), \$3.00. Set of four coils (6 prongs, 3 windings), \$3.75. Coil Forms (4 or 5 prongs), 35c ea. 6-prong forms, 40c ea. 40% discount to experimenters.

Mail Coupon for 1935 Catalog

For Better Radio
Hammarlund
PRECISION
PRODUCTS

Canadian Office:
41 West Avenue North,
Hamilton, Ontario



HAMMARLUND MANUFACTURING CO.
424-438 W. 33rd St., New York.

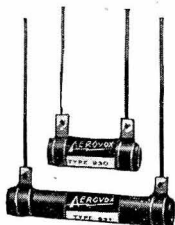
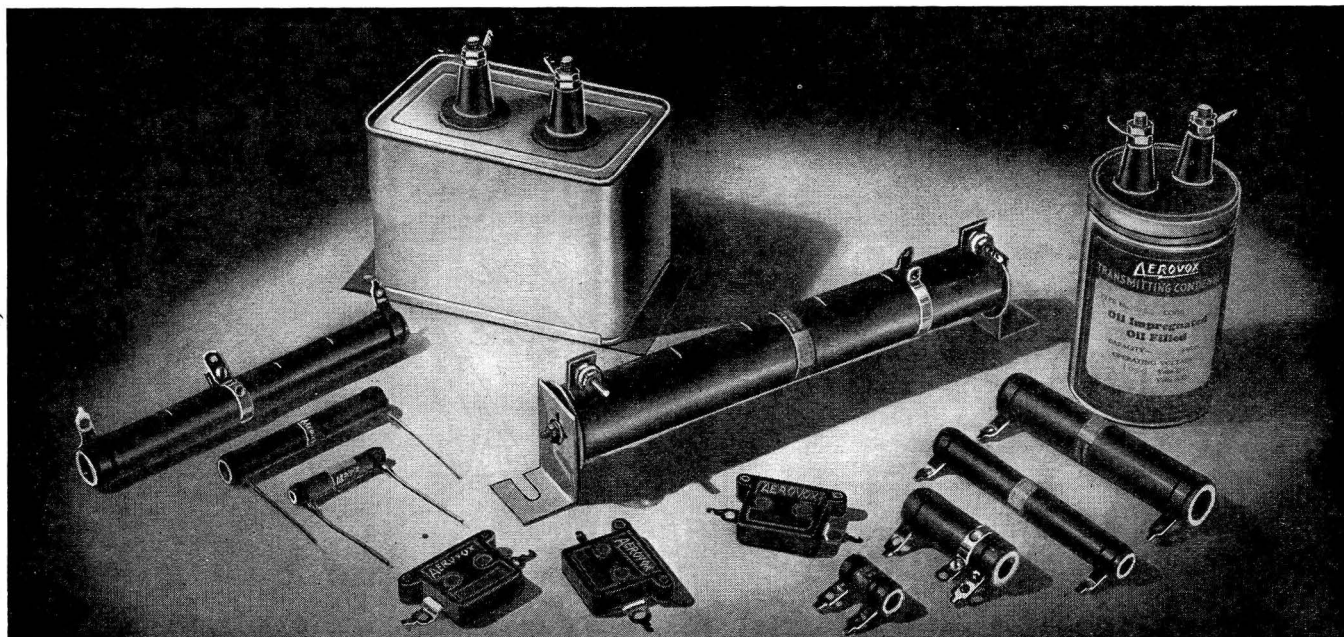
- ☐ Check here for FREE information on the new Variable-Coupling I.F. Transformer.
- ☐ Check here for FREE 1935 General Catalog.
- ☐ Check here and attach 10c for 16-page Hammarlund 1935 Short-Wave Manual, illustrating and describing most popular S-W circuits of past year, with schematic and picture diagrams and parts lists.

NAME.....

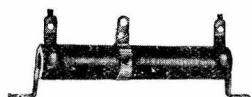
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AC-3

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine



Tiny wire-wound vitreous-enamelled resistors . . . 5, 10 and 15 watt ratings no larger than usual carbon jobs . . . compact in size, giants in usefulness. Also larger units.



Adjustable Transmitting Grid-Leak Resistors . . . also used as voltage dividers . . . wire-wound vitreous enameled type . . . sliding band contact . . . 10, 50, 75, 100 and 200 watt ratings. Built to last!



Bakelite molded mica condensers . . . flat tops and bottoms for convenient stacking . . . insulated mounting holes and terminals . . . 1000, 2500 and 5000 volt ratings.

Built to Stand the Gaff!

FOR transmitters that must operate hour after hour, day by day, year in and year out without troublesome and costly replacements, Aerovox Condensers and Resistors are the logical choice.



Carefully engineered products . . . incorporating always the latest and most advanced technique thoroughly checked in the laboratory and out in the field before general release . . . mass produced in a plant second to none in size, efficiency, thoroughness . . . and offered at lowest prices at which quality components have ever been offered.

So before you buy components, check Aerovox quality and list prices against all others.



FREE DATA New 1935 Catalog sent on request. Also sample copy of monthly Research Worker . . . the cream of the crop of practical radio information. Meanwhile, see your local supplier for Aerovox condensers and resistors . . . in familiar yellow and black cartons . . . with Aerovox guarantee slip.



Round Type Oil-Filled Transmitting Condensers . . . pure linen paper dielectric . . . thoroughly sealed and seepage-proof . . . cool operation under constant load . . . genuine high-tension pillar terminals . . . defying competition in quality and price alike!



Rectangular Type Oil-Filled Transmitting Condensers . . . pure linen paper dielectric . . . clamped section prevents plate flutter . . . roll-seamed container positively seepage-proof . . . cool operation . . . genuine high-tension pillar terminals . . . quality and price are right.



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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

PR-12



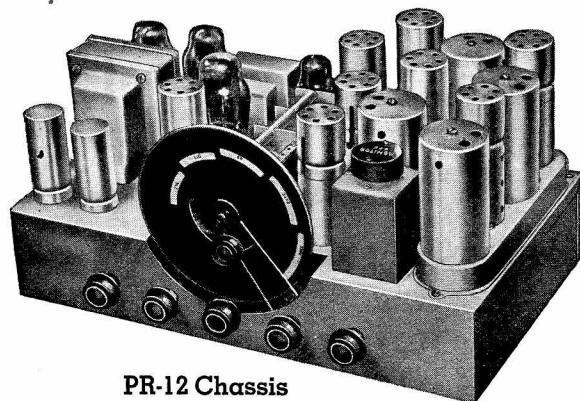
• the ultimate in DX for 1935!

• Amateurs—and non-professional devotees of the science of DX communication—throughout the world have asked if there is a receiver that will out-perform the sensation of the 1934 season: the incomparable Patterson PR-10!

• Today the answer is: Yes! But one, however: PR-10's successor model: PR-12! With greater range—8-550 meters; sensitivity still finer; selectivity even more acute; the PR-12 will out-perform any set—at any price—on any band! And this world challenge includes tone, also.

• Designed and engineered under the personal supervision of E. R. Patterson, pioneer American manufacturer of super-quality receivers (since 1920!) this magnificent engineering achievement incorporates every proven feature of value: several of which are distinctive and entirely exclusive with the Patterson Laboratories, again leading in original and constructive accomplishment—as for the past 15 years.

• Convince yourself of the outstanding superiority of PR-12 by contacting your nearest Patterson jobber at once. Arrange for a demonstration immediately. You will be amazed—as is every other Amateur who has subjected this remarkable receiver to every possible test.



PR-12 Chassis

56 FEATURES . . . among them are:

- Higher sensitivity; greater selectivity.
- Uniform gain over entire range.
- Full range, 8 to 550 meters.
- Shielded 100 per cent.
- • • Patterson Selector-Band Dial; airplane type; shows only band in use; microthermic 2 speed tuning; 10 to 1 and 50 to 1 reduction; anti-backlash rubber drive.
- • • New 6 section tuning gang condenser gives an exceptionally low C tuned circuit, resulting in extremely high gain (approximately twice) on the short-wave bands, equalling or surpassing plug-in coils.
- Newly designed coils, with new type of switch, lowering the amount of dielectric loss and skin effect in tuned circuit.
- Pre-selection ahead of first detector results in higher signal to noise ratio, decreasing amount of image response to a minimum; increasing sensitivity, overall gain and selectivity.
- • • Modulation and R meter.
- • • Crystal filter, which can be cut in as a series or parallel filter; affords two degrees of selectivity, further raising signal to noise ratio and increasing selectivity.
- • Monitor switch, for use in checking quality of your own transmission; percentage of modulation indicated visually and orally.

(NOTE: • • indicates NEW; • • • indicates NEW and EXCLUSIVE!)



PR-12 (8-550)

List Price Complete—Absolutely Nothing Else to Buy!

PR-12C—Chassis, Tubes and Speaker	\$129.50
PR-12—in Metal Case	139.50
PR-12K—in Console	169.50
Add for Complete Crystal Control	10.00
Add for any voltage or cycle other than 110 Volt AC, 50-60 Cycle (not made in Battery type)	4.00

A discount of 40% from the list prices is extended to the amateur and experimenter.

All prices F.O.B. Los Angeles. Patterson standard R.M.A. guarantee of six months.



PATTERSON RADIO COMPANY

Manufacturers

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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

THOUSANDS ARE *Enthusiing* OVER THE *New* 1935 MIDWEST-16



World-Wide Entertainment
Hollywood, Calif.—Until I received my new Midwest radio, I had never thought it possible to bring in entertainment from half way around the world so clearly.
Jean Harlow
(Metro-Goldwyn-Mayer Star)



Amazing All-Wave Performance
Hollywood, Calif.—My Midwest is the best set I have ever tried. It gives me super foreign reception and new radio adventure. Its performance on all five wave bands amazes me.
RICHARD ARLEN
(Paramount Featured Player)



Thrilling Foreign Reception
Hollywood, Calif.—Not until I tried out my Midwest 16 did I really appreciate what radio reception was. It thrills me to bring in distant foreign stations as clearly as local programs.
(Paramount Star) *Claudette Colbert*



Better Foreign Reception
Hollywood, Calif.—I am quite enthused with my Midwest. Many friends who have heard it are delighted with its performance. It brings in, without a doubt, the finest all-wave reception I have ever heard.
Jean Hamilton

Thrill to Unequalled World-Wide Performance with this—

Amazing NEW 1935 SUPER Deluxe 16-Tube ALL-WAVE Radio

9 TO 2,400 METERS
(12,000 MILE TUNING RANGE)

30 DAYS FREE TRIAL

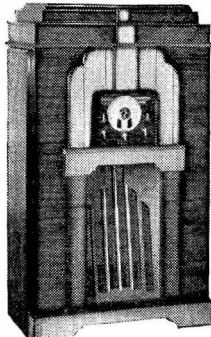


Guaranteed WORLD-WIDE RECEPTION!

BEFORE you buy any radio, write for FREE copy of the new 1935 Midwest "Fifteenth Anniversary" catalog. See for yourself the many reasons why over 110,000 satisfied customers have bought their radios direct from Midwest Laboratories . . . and saved from $\frac{1}{3}$ to $\frac{1}{2}$. Learn why Midwest radios out-perform sets costing up to \$200 and more. You, too, can make a positive saving of from 30% to 50% by buying this more economical way. Why be content with ordinary so-called "All-Wave", "Dual Wave", "Skip Wave" or "Tri-Wave" receivers when Midwest gives you more wave lengths in today's most perfectly developed 16-tube Super de luxe ALL-WAVE radio that are proven by four years of success . . . that carry an iron-clad guarantee of foreign reception! These bigger, better, more powerful, clearer-toned, super selective radios have FIVE distinct wave bands; ultra short, short, medium, broadcast, and long. Their greater all-wave tuning of 9 to 2400 meters (33 megacycles to 125 KC) enables you to tune in stations 12,000 miles away with clear loud speaker reception. Write TODAY for new FREE catalog!

Now, you can enjoy super American, Canadian, police, amateur, commercial, airplane and ship broadcasts . . . and derive new delight and new excitement from unequalled world-wide performance. Now, you can enjoy the DX-ing hobby and secure verifications from more of

the world's most distant stations. Thrill to the chimes of Big Ben from GSB, London, England . . . tune in on the "Marseillaise" from FYA, Pointoise, France . . . hear sparkling music from EAQ, Madrid, Spain . . . delight in lively tangos from YVIBC, Caracas, Venezuela . . . listen to the call of the Kookaburra bird, from VK2ME, Sydney, Australia, etc. Send today for money-saving facts.



NEW STYLE CONSOLES
The new, big, Midwest 30-page 1935 catalog pictures a complete line of beautiful, artistic de luxe consoles and chassis . . . in four colors . . . a model for every purse. Hand made by master craftsmen, they harmonize beautifully with any furniture arrangement. Write for new FREE catalog today!

50 ADVANCED 1935 FEATURES

Here are a few of Midwest's superior features: Controllable Expansion of Volume-Selectivity-Sensitivity (Micro-Tenuator) . . . Fidel-A-Trol . . . Triple Calibration Plus . . . Pure Silver Wire . . . Ceramic Coil Forms . . . Separate Audio Generator . . . Simplified Tuning Guide Lights . . . Compact Synchronized Band Switch . . . Amplified Automatic Volume Control . . . 7 KC Selectivity . . . Power Driver Stage . . . 16 Latest Type Tubes . . . etc. Read about these and 38 other features in the new FREE Midwest catalog. Never before so much radio for so little money. Write for FREE catalog.

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Increasing costs are sure to result in higher radio prices soon. Buy before the big advance . . . NOW! . . . while you can take advantage of Midwest's sensational values . . . No middlemen's profits to pay. You can order your radio from the new Midwest catalog with as much certainty of satisfaction as if you were to select it in our great radio laboratories. You save 30% to 50% when you buy direct this popular way . . . you get 30 days FREE trial . . . as little as \$5.00 down puts a Midwest radio in your home. Satisfaction guaranteed or money back. Write for FREE catalog.



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with New
Deluxe Auditorium-Type SPEAKER
... LESS TUBES ...

Jean Harlow, Richard Arlen, Claudette Colbert, Neil Hamilton, Maureen O'Sullivan, Gloria Stuart and Ginger Rogers are some of the movie stars who prefer the Midwest radio because it gives them the super all-wave reception that they desire.

Try the Midwest for thirty days before you decide. Midwest gives you triple protection with: A one-year guarantee, foreign reception guarantee, money-back guarantee.

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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

TRANSMITTING EQUIPMENT for the AMATEUR WHO WANTS VALUE FOR HIS MONEY

Here is a collection of outstanding NEW Developments, hard to get parts and accessories as well as standard merchandise that will save money for Hams everywhere.

Left: Lafayette 30 watt type P46 Transmitter. An efficient job at \$49.50 utilizing the popular Les-tet Oscillator Buffer or Doubler with a pair of 46's in parallel. Write for details.

Right: Lafayette "19" Transceiver. Described in RADIO, October, 1934. A job that Hams all over the East are talking about. Has power output about 10 times that of similar units. Price only \$17.95. Write for details.

Left: Lafayette 100 Watt C.W. and 30 Watt phone. Described in RADIO, November, 1934. The most economical XMTR ever offered for its rated output. Write for details.

Right: Lafayette 30 watt type B46 speech amplifier Modulator. A companion unit for the P46 C.W. unit. Designed for crystal mike; overall gain 110Db flat from 60 to 17,000 cycles \pm 1.5 Db. Price \$39.50.

DIALS

4-in. highly polished nickel silver, etched figures. 1 1/2-in. intg. centers. Marked: Amplifier Plate, Amplifier Grid, Oscillator, Antenna, Buffer also Blank. No. CXH9858, each. 60c
2 1/2-in. Diam. Same as above but marked; NEUTRALIZATION also Blank. No. CXH9857, each. 50c
2 1/2-in. Diam. with Aluminum figures on black. Marked: Tone, Volume, Mixer gain, Button Current. No. CXH9859, each. 10c
Be sure to specify markings wanted

INDICATOR PLATES

Rectangular aluminum plates, 1 1/2 x 3/4 in. Black Background, aluminum figures. Marked: Filament—1st On—2nd Off; Plate—2nd On—1st Off; Oscillator Plate Current; Amplifier Grid Current; Buffer Plate Current; Amplifier Plate Current; Amplifier Screen Current; Antenna Feeder Current; Output Grid-Grid. No. CXH9898, each. 10c

INDICATOR KNOBS

Black bakelite 2 1/2-in. diam. for 1/4-in. shafts. No. CXH9895, each. 22c
Black bakelite 1 1/2-in. diam. for 1/4-in. shafts. No. CH9896, each. 17c

POINTER KNOBS

Black bakelite. Fine for test equipment, transceivers, etc. 3/4-in. shaft with set screw. White engraved line. No. PXM13055 2 1/4-in. long, each. 10c
CXM13054 1 1/4-in. long, each. 09c

CIRCULAR PLATES

Black background, aluminum figures 1-in. diam. 7/16-in. hole. Marked: Mike-Phone, Cell Disc; Adjust-Cell Voltage; On-Off. CXH9899, each. 10c

INDICATOR PLATES

Black background, aluminum figures, marked CW-Phone Switch. CXH9918, each. 15c

GENERAL UTILITY CABINETS

Black Crystalline finish. For X'mitting units. Receivers, mixers, input stages, etc. Four standard sizes: CXY22174—5 1/2 x 6 x 5 1/2, each. \$.69
CXY22175—5 x 9 x 6, each. .99
CXY22176—8 x 10 x 7, each. 1.19
CXY22177—11 x 12 x 8, each. 1.69

THE NEW NATIONAL HRO

Receiver in stock. Complete with coils, less tubes, speaker and power supply. CXN13771\$139.50

NATIONAL COIL FORMS

Type XR 10A, steatite; 2 1/2 x 5"; 26 turns—No. CXN1434790c
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NEW RCA ACR-136

In stock. Get details of this remarkable receiver. Price complete with tubes. Nothing else to buy.

No. CXN13814.....\$69.50

LATEST RCA OSCILLOGRAPH

Ready for immediate delivery. Complete with tubes. No. CXN13943.....\$84.50

LAFAYETTE TRANSMITTING TUBES

Graphite Plates. Real F.B. 203, 211, 242, 845\$10.95
For FIVE METER HAMS two tubes that are the nertz: 800\$7.50
866A2.40
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RCA-DeForest, Raytheon, Sylvania, X'mitting Tubes at lowest prices.

EIMAC TUBES at the best prices! We are sole Distributors for Atlanta and South Eastern States.

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20-40 Meter—CXN113098\$1.00
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Made of ligrade steel—not scrap. Black Crystalline finish that will last a lifetime. Entirely new and exceptionally good looking. Drilled every 1 1/4-in. 3 ft. high. No. CXY22150.....\$ 8.95
6 ft. high. No. CXY22151.....10.95

PEAK PRESELECTOR

and Preamplifier will boost those R1 sigs to 9. Predates and modernizes your present receiver. Immediate delivery. No. CXN13760\$19.80

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Stock No.	Width	Cost
CXY22160	7"	\$.78
CXY22161	8 3/4"	.95
CXY22162	10 1/2"	1.15
CXY22163	12 1/2"	1.35
CXY22164	14"	1.55
CXY22165	15 3/4"	1.75
CXY22166	17 1/2"	1.95
CXY22167	19 3/4"	2.10
CXY22168	21"	2.40

TRUEST CRYSTALS

Accurately ground to .1 of 1%. We will immediately ship frequency nearest to that ordered—or to your specified frequency within 2 days without extra charge. All Xtals are 1" square and are guaranteed power oscillators.

X or Y cut 40 meter band—No. CXN3989\$3.75
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CARDWELL CONDENSERS

Tank Condensers	Type	Cap	Spacing	Price
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CXH8604	147B	440	.070	4.12
CXH8605	T-199	330	.084	5.88
CXH8609	T-183	110	.171	5.29
Neut. Condensers				
CXH8611	511-B	23	.171	1.77
CXH8612	513-B	50	.171	3.53
Split Stator				
CXH8616	197-B	*80	.070	2.94
CXH8617	157-B	*210	.070	4.70

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A complete line of these in stock: United Transformers, Thordarson Transformers, Trutest Transformers. Trutest special suppressor grid modulator transformers. From single 45 plate to 1 or 2 RK suppressor grids. No. CXE5498.....\$3.75
Same from single 2B6 plate to 1 or 2 RK suppressor grid. A real husky job. Weighs 6 lbs. No. CXE5499.....\$3.75

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Primary 115 Volts A.C. 50/60 Cycles

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CXE5509—7 1/2 V.C.T. 6.5 A; 2500 insulation1.75
CXE5510—10 V.C.T. 6 1/2 A; 2500 V. insulation2.00
CXE5511—6.3 V.C.T. 5 A; 5 V.C.T. 6 A; 2500 insulation2.00
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CXE5516—12 Henry, 300 MA; D.C. resistance 105 ohms.....63.75
CXE5517—12 Henry, 500 MA; D.C. resistance 70 ohms.....6.50

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CXE5518—5/25 Henry, 200 MA; D.C. resistance 140 ohms.....\$2.50
CXE5519—5/25 Henry, 300 MA; D.C. resistance 105 ohms.....3.75
CXE5520—5/25 Henry, 500 MA; D.C. resistance 70 ohms.....6.50

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—NEW, MORE EFFICIENT BATTERY DESIGN

BURGESS Engineers have developed a new principle of dry battery construction, one which makes possible the use of smaller, more efficient cells in batteries built for heavy duty service. The new principle is the parallel assembly of selected cells, without the usual marked drainage to the voltage of the weakest cell. A revolutionary conception in battery design, it has been proved decidedly more efficient.

In the new line of BURGESS Batteries for 1935 are three built by parallel (or series-parallel) assembly of size F (No. 10) cells. Each one has been proved more efficient in laboratory tests and in actual use. They are—

The BURGESS Power House—a 200 ampere-hour, 3 volt battery

The BURGESS Little Uniplex—a 40 ampere-hour, 6 volt battery

The BURGESS Little Six—a 40 ampere-hour, 1.5 volt battery

The new BURGESS Parallel Assembly may solve your special battery problems. BURGESS Engineers will be glad to help you. The photograph above shows H. E. Lawson, Research Engineer, with the BURGESS Power House, Little Uniplex, and Little Six. BURGESS BATTERY CO., Freeport, Ill.

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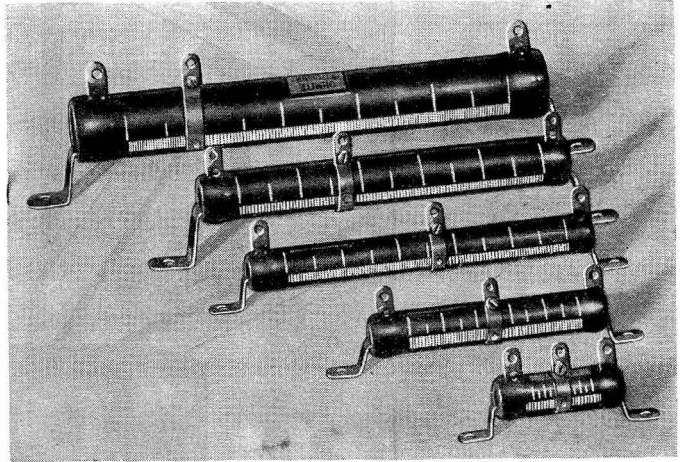
Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

ASK ABOUT THE **NEW OHMITE RESISTORS**

They cost no more -
Now available in many new sizes & types

"DIVIDOHM" VITREOUS ENAMELED RESISTORS IN NEW SIZES!

You can now get the Ohmite DIVIDOHM semi-variable vitreous enameled resistors in the new 100 watt and 200 watt sizes, with the patented percentage-of-resistance scale and other features of the smaller units you have used in the past. There are now FIVE SIZES of these handy resistors with over 130 resistance values. Used as bleeder resistors, voltage dividers, or where an odd-valued resistor is needed, DIVID-OHMS are necessary in every amateur shack. For complete description and list of stock values, see the new Ohmite Catalog Number 11.

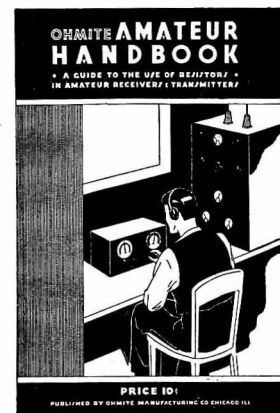


"BROWN DEVIL" VITREOUS ENAMELED RESISTORS

These vitreous enameled resistors are now made in both 10 watt and 20 watt sizes, in resistance values covering practically every standard value. The vitreous coating protects units against moisture, acids, etc., and also quickly conducts the heat away from the winding. Both sizes of resistors have tinned wire leads so that they may be quickly soldered in the circuit.

Ohmite Amateur Handbook Welcomed by Operators

This sixteen page book covering resistors and their uses in amateur radio work has received an enthusiastic welcome in all parts of the world. The supply of the first issue is running low; if you do not have a copy get one from your jobber, or write us direct. Price 10c. Postpaid.



OHMITE "Multivolt" Vitreous Enameled Tapped Resistors



Multivolt tapped resistors are ideal as amateur voltage dividers. Each unit has ten sections and the winding is completely covered with vitreous enamel. By using spring clips on the leads ten different voltages may quickly be taken off each resistor without any possibility of injuring the winding. See Catalog Number 11 for complete list.

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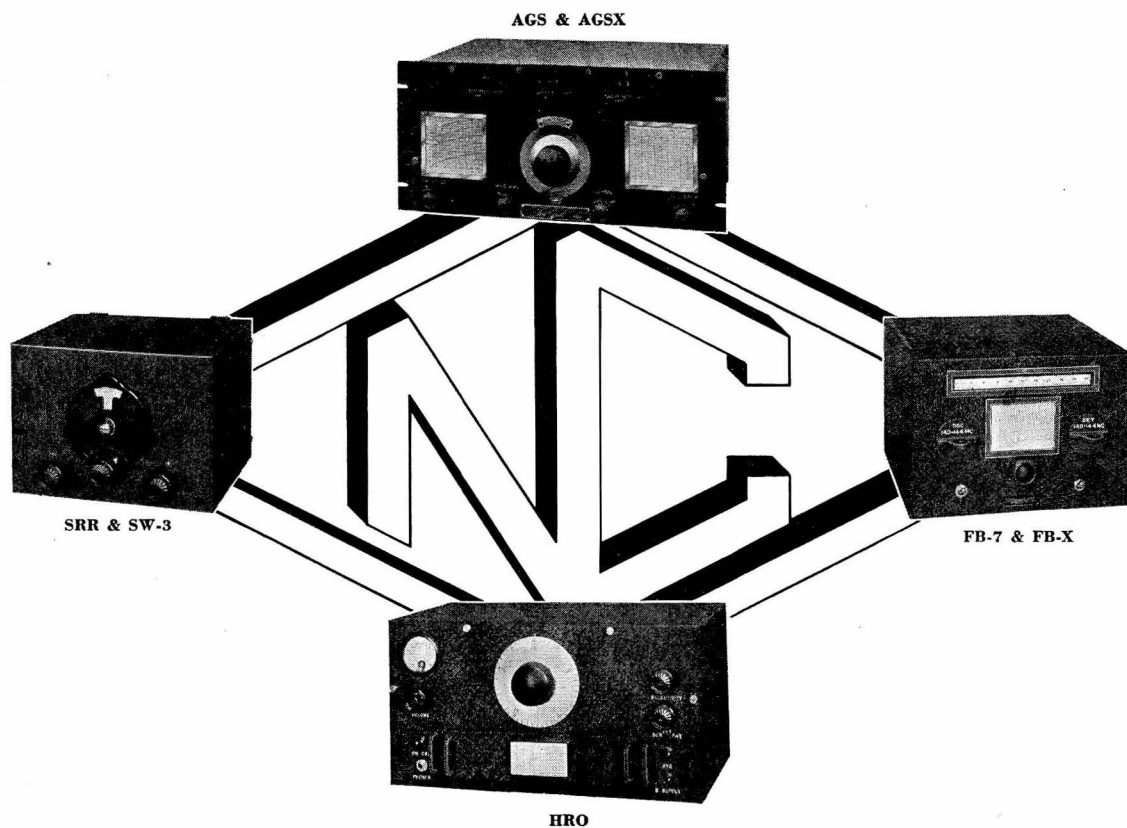
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The SRR, a non-radiating superregenerative receiver that has made history on the 5-meter band. Compact, versatile and effective. Coils are available for all of the amateur bands.

The SW-3, a general purpose short-wave set reduced to its simplest form. This, the most widely used of all amateur receivers, employs three tubes-tuned R.F. regenerative detector and impedance coupled audio.

The FB-7A and FB-XA, a remarkably efficient receiver at a remarkably low price. A seven tube superheterodyne with air-tuned I.F. and air padded plug-in coils, single-control, tuning and calibrated band-spreading. The FBXA has a Lamb single-signal filter in addition.

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The AGS, a strictly professional receiver, designed in cooperation with the U. S. Government and used in great numbers by Government and Commercial communication stations.

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